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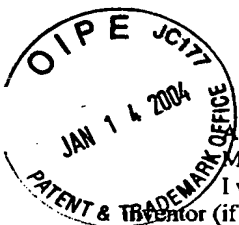
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Xerox Docket No.D/A3570

# APPLICATION FOR UNITED STATES PATENT DECLARATION AND POWER OF ATTORNEY

I, as a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint

inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**DIRECT DETECTION OF HIGH-ENERGY SINGLE PHOTONS**

described and claimed in the specification:

Check one

\*a. ☐ attached hereto.

b. ☒ filed on September 3, 2003 as Application No. 10/653,190.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56. Under Title 35, U.S. Code §119, the priority benefits of the following foreign application(s) and/or United States provisional application(s) filed by me or my legal representatives or assigns within one year prior to this application are hereby claimed:

The following application(s) for patent or inventor's certificate on this invention were filed in countries foreign to the United States of America either (a) more than one year prior to this application, or (b) before the filing date of the above-named foreign priority application(s) and/or United States provisional application(s):

I hereby appoint the following as my attorneys of record with full power of substitution and revocation to prosecute this application and to transact all business in the Patent Office:

|                     |                  |                      |                      |
|---------------------|------------------|----------------------|----------------------|
| Mark Costello       | Reg. No. 31,342; | Elizabeth F. Harasek | Reg. No. 28,850;     |
| Ronald F. Chapuran  | Reg. No. 26,402; | Eugene O. Palazzo    | Reg. No. 20,881;     |
| Kevin R. Kepner     | Reg. No. 32,145; | Mario A. Costantino  | Reg. No. 33,565;     |
| Nola Mae McBain     | Reg. No. 35,782; | Stephen J. Roe       | Reg. No. 34,463;     |
| James A. Oliff      | Reg. No. 27,075; | Joel S. Armstrong    | Reg. No. 36,430;     |
| William P. Berridge | Reg. No. 30,024; | Christopher W. Brown | Reg. No. 38,025;     |
| Kirk M. Hudson      | Reg. No. 27,562; | Richard E. Rice      | Reg. No. 31,560;     |
| Thomas J. Pardini   | Reg. No. 30,411; | Paul Tsou            | Reg. No. 37,956; and |
| Edward P. Walker    | Reg. No. 31,450; | Eric D. Morehouse    | Reg. No. 38,565.     |
| Robert A. Miller    | Reg. No. 32,771; |                      |                      |

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA, VIRGINIA 22320, TELEPHONE (703) 836-6400.**

I hereby declare that I have reviewed and understand the contents of this Declaration, and that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1 *Typewritten Full Name  
of First or Sole Inventor*

Ofer

DAGAN

Given Name

Middle Initial

Family Name

2 **\*\*INVENTOR'S SIGNATURE:**

3 **\*\*DATE OF SIGNATURE:**

Month

Day

Year

Residence:

Givat Ze'ev

City

State or Province

Country

Citizenship:

Israel

Post Office Address:

(Insert complete

mailing address,

including country)

Mevo HaShikma 20/1, 90917 Givat Ze'ev, Israel.

**\*This form may be executed only when attached to the specification (including claims) at the end thereof if Box a. is checked.**

**\*\*Note to Inventor: Please sign name exactly as it appears above and insert actual date of signing.**

**IF THERE IS MORE THAN ONE INVENTOR USE PAGE 2 AND PLACE AN "X" HERE ☒**

Page 2 OF U.S.A. DECLARATION FORM  
(Discard this page in a sole inventor application)

|   |   |   |                   |               |
|---|---|---|-------------------|---------------|
| 1 | <b>Typewritten Full Name<br/>of Second Joint Inventor (if any)</b>                        | Barry   | Neal              | BREEN         |
|   |   | Given Name  | Middle Initial    | Family Name   |
| 2 | <b>**INVENTOR'S SIGNATURE:</b>  | <i>X</i> <i>Dany 1/Bar</i>                                      |                   |               |
| 3 | <b>**DATE OF SIGNATURE:</b>   | <i>X</i> <i>12</i>  | <i>15</i>         | <i>2003</i>   |
|   |   | Month   | Day               | Year          |
|   | <b>Residence:</b>   | Givat Ze'ev   |                   | Israel        |
|   |   | City  | State or Province | Country       |
|   | <b>Citizenship:</b>   | Israel, USA   |                   |               |
|   | <b>Post Office Address:</b><br>(Insert complete<br>mailing address,<br>including country) | Post Office Box 580<br>HaMacabim 67, 90917 Givat Ze'ev, Israel. |                   |               |
| 1 | <b>Typewritten Full Name<br/>of Third Joint Inventor (if any)</b>                         | Haim  |                   | HERMON        |
|   |   | Given Name  | Middle Initial    | Family Name   |
| 2 | <b>**INVENTOR'S SIGNATURE:</b>  | <i>X</i>  |                   |               |
| 3 | <b>**DATE OF SIGNATURE:</b>   | <i>X</i>  |                   |               |
|   |   | Month   | Day               | Year          |
|   | <b>Residence:</b>   | Jerusalem   |                   | Israel        |
|   |   | City  | State or Province | Country       |
|   | <b>Citizenship:</b>   | Israel  |                   |               |
|   | <b>Post Office Address:</b><br>(Insert complete<br>mailing address,<br>including country) | Bar Kochva 2, 97875 Jerusalem, Israel                           |                   |               |
| 1 | <b>Typewritten Full Name<br/>of Fourth Joint Inventor (if any)</b>                        | Robert  | A.                | STREET        |
|   |   | Given Name  | Middle Initial    | Family Name   |
| 2 | <b>**INVENTOR'S SIGNATURE:</b>  |   |                   |               |
| 3 | <b>**DATE OF SIGNATURE:</b>   |   |                   |               |
|   |   | Month   | Day               | Year          |
|   | <b>Residence:</b>   | Palo Alto   | California        | United States |
|   |   | City  | State or Province | Country       |
|   | <b>Citizenship:</b>   | British   |                   |               |
|   | <b>Post Office Address:</b><br>(Insert complete<br>mailing address,<br>including country) | 894 La Para Avenue, Palo Alto, CA 94306-2647, USA               |                   |               |
| 1 | <b>Typewritten Full Name<br/>of Fifth Joint Inventor (if any)</b>                         |   |                   |               |
|   |   | Given Name  | Middle Initial    | Family Name   |
| 2 | <b>**INVENTOR'S SIGNATURE:</b>  |   |                   |               |
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|   | <b>Residence:</b>   |   |                   |               |
|   |   | City  | State or Province | Country       |
|   | <b>Citizenship:</b>   |   |                   |               |
|   | <b>Post Office Address:</b><br>(Insert complete<br>mailing address,<br>including country) |   |                   |               |

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**DIRECT DETECTION OF HIGH-ENERGY SINGLE PHOTONS**

described and claimed in the specification:

**Check one**

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| <b>Ronald F. Chapuran</b>  | <b>Reg. No. 26,402;</b> | <b>Eugene O. Palazzo</b>    | <b>Reg. No. 20,881;</b>     |
| <b>Kevin R. Kepner</b>     | <b>Reg. No. 32,145;</b> | <b>Mario A. Costantino</b>  | <b>Reg. No. 33,565;</b>     |
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**1** **Typewritten Full Name  
of First or Sole Inventor**

Ofer

DAGAN

Given Name

Middle Initial

Family Name

**2** **\*\*INVENTOR'S SIGNATURE:**

**3** **\*\*DATE OF SIGNATURE:**

Month

Day

Year

Residence:

Givat Ze'ev

Israel

City

State or Province

Country

Citizenship:

Israel

Post Office Address:

(Insert complete

mailing address,

including country)

Mevo HaShikma 20/1, 90917 Givat Ze'ev, Israel.

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| Barry      | Neal           | BREEN       |
|------------|----------------|-------------|
| Given Name | Middle Initial | Family Name |

2 **\*\*INVENTOR'S SIGNATURE:**

3 **\*\*DATE OF SIGNATURE:**

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|-------|-----|------|

Residence: Givat Ze'ev Israel

| City | State or Province | Country |
|------|-------------------|---------|
|------|-------------------|---------|

Citizenship: Israel, USA

Post Office Address:  
(Insert complete mailing address, including country)

Post\_Office\_Box\_580

HaMacabim 67, 90917 Givat Ze'ev, Israel.

1 **Typewritten Full Name**  
**of Third Joint Inventor (if any)**

| Haim       |                | HERMON      |
|------------|----------------|-------------|
| Given Name | Middle Initial | Family Name |

2 **\*\*INVENTOR'S SIGNATURE:** Haim Hermon

3 **\*\*DATE OF SIGNATURE:**

| December | 16  | 2003 |
|----------|-----|------|
| Month    | Day | Year |

Residence: Jerusalem Israel

| City | State or Province | Country |
|------|-------------------|---------|
|------|-------------------|---------|

Citizenship: Israel, USA

Post Office Address:  
(Insert complete mailing address, including country)

Bar Kochva 2, 97875 Jerusalem, Israel

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**of Fourth Joint Inventor (if any)**

| Robert     | A.             | STREET      |
|------------|----------------|-------------|
| Given Name | Middle Initial | Family Name |

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Residence: Palo Alto California United States

| City | State or Province | Country |
|------|-------------------|---------|
|------|-------------------|---------|

Citizenship: British

Post Office Address:  
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894 La Para Avenue, Palo Alto, CA 94306-2647, USA

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| James A. Oliff      | Reg. No. 27,075; | Joel S. Armstrong    | Reg. No. 36,430;     |
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| Kirk M. Hudson      | Reg. No. 27,562; | Richard E. Rice      | Reg. No. 31,560;     |
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**of Second Joint Inventor (if any)** Barry BREEN  
Given Name Middle Initial Family Name

2 **\*\*INVENTOR'S SIGNATURE:** \_\_\_\_\_

3 **\*\*DATE OF SIGNATURE:** \_\_\_\_\_  
Month Day Year

Residence: Givat Ze'ev Israel  
City State or Province Country

Citizenship: Israel

Post Office Address:  
(Insert complete  
mailing address,  
including country) HaMacabim 67, 90917 Givat Ze'ev, Israel.

1 **Typewritten Full Name**  
**of Third Joint Inventor (if any)** Haim HERMON  
Given Name Middle Initial Family Name

2 **\*\*INVENTOR'S SIGNATURE:** \_\_\_\_\_

3 **\*\*DATE OF SIGNATURE:** \_\_\_\_\_  
Month Day Year

Residence: Jerusalem Israel  
City State or Province Country

Citizenship: Israel

Post Office Address:  
(Insert complete  
mailing address,  
including country) Bar Kochva 2, 97875 Jerusalem, Israel

1 **Typewritten Full Name**  
**of Fourth Joint Inventor (if any)** Robert A. STREET  
Given Name Middle Initial Family Name

2 **\*\*INVENTOR'S SIGNATURE:** Robert A Street

3 **\*\*DATE OF SIGNATURE:** Nov 11 2003  
Month Day Year

Residence: Palo Alto California United States  
City State or Province Country

Citizenship: British

Post Office Address:  
(Insert complete  
mailing address,  
including country) 894 La Para Avenue, Palo Alto, CA 94306-2647, USA

1 **Typewritten Full Name**  
**of Fifth Joint Inventor (if any)** \_\_\_\_\_  
Given Name Middle Initial Family Name

2 **\*\*INVENTOR'S SIGNATURE:** \_\_\_\_\_

3 **\*\*DATE OF SIGNATURE:** \_\_\_\_\_  
Month Day Year

Residence: \_\_\_\_\_  
City State or Province Country

Citizenship: \_\_\_\_\_

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